N61165.AR.005714
CNC CHARLESTON
5090.3a

UNDERGROUND STORAGE TANK (UST) ASSESSMENT REPORT FOR BUILDING 54 CNC CHARLESTON SC

10/17/1996

ENVIRONMENTAL DETACHMENT CHARLESTON

L° 12.18.96

#12094

UST ASSESSMENT REPORT
UST BLDG 54
NAVAL BASE CHARLESTON
CHARLESTON SC

Prepared for:

DEPARTMENT OF THE NAVY
SOUTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
CHARLESTON SC

Prepared by:

SUPERVISOR OF SHIPBUILDING, CONVERSION
AND REPAIR, USN, PORTSMOUTH DETACHMENT
ENVIROMENTAL CHARLESTON, SC
1899 NORTH HOBSON AVE.
NORTH CHARLESTON SC 29405-2106

October 17, 1996

South Carolina Department of Health and Environmental Control (S.C.D.H.E.C.)
Underground Storage Tank (UST) Assessment Report

Date Received State Use Only

Submit Completed Form to:
UST Regulatory Section
SCDHEC
2600 Bull Street
Columbia, South Carolina 29201
Telephone (803) 734-5331

I OWNERSHIP OF UST(S)

Agency/Owner: Southern Division, Naval Facilities Engineering Command, Caretaker Site Office

Mailing Address: P.O. Box 190010

City: N. Charleston State: SC Zip Code: 29419-9010

Area Code: 803 Telephone Number: 743-9985 Contact Person: LCDR Paul Rose

II SITE IDENTIFICATION AND LOCATION

Site I.D. #: 12094, Registered but not regulated

Facility Name: Charleston Naval Base Complex, BLDG 54

Street Address: South Hobson Avenue

City: North Charleston, 29405-2413 County: Charleston

III CLOSURE INFORMATION

Closure Started: 10 June 96 Closure Completed: 12 June 96

Number of USTs Closed: 1

N/A	SPORTENVDETCHASN
Consultant	UST Removal Contractor

IV. CERTIFICATION (Read and Sign after completing entire submittal)

I certify that I have personally examined and am familiar with the information submitted in this and all attached documents; and that based on my inquiry of those individuals responsible for obtaining this information, I believe that the submitted information is true, accurate and complete.

LCDR Paul Rose
Name (Type or Print)

Signature

RECEIVED
NOV 01 1996
Groundwater Assessment and Development Section

V. UST INFORMATION

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
A. Product	Diesel fuel					
B. Capacity	560 gal.					
C. Age	1967					
D. Construction Material	Steel					
E. Month/Year of Last Use	Unknown					
F. Depth (ft.) To Base of Tank	6' 3"					
G. Spill Prevention Equipment Y/N	N					
H. Overfill Prevention Equipment Y/N	N					
I. Method of Closure Removed/Filled	R					
J. Visible Corrosion or Pitting Y/N	Y					
K. Visible Holes Y/N	Y					

L. Method of disposal for any USTs removed from the ground (attach disposal manifests)

The UST was removed from the ground, drained, and cleaned. It was then cut up for recycling as scrap metal. See Attachment III.

M. Method of disposal for any liquid petroleum, sludges, or waste waters removed from the USTs (attach disposal manifests)

Residual diesel fuel was recycled.

N. If any corrosion, pitting, or holes were observed, describe the location and extent for each UST

UST BLDG 54 was corroded, pitted, and had several holes. The holes ranged from 1/4 to 1/8 inch in diameter. They were located from the middle of the tank up. See Attachment I.

VI. PIPING INFORMATION

	Tank 1	Tank 2	Tank 3	Tank 4	Tank 5	Tank 6
A. Construction Material.....	Steel					
B. Distance from UST to Dispenser.....	* 1'					
C. Number of Dispensers.....	1					
D. Type of System P/S.....	S					
E. Was Piping Removed from the Ground? Y/N....	Y					
F. Visible Corrosion or Pitting Y/N.....	N					
G. Visible Holes Y/N.....	N					
H. Age.....	1967					

*UST BLDG 54 was located 1' from Bldg 54. It provided diesel fuel for fresh water pumps.

I. If any corrosion, pitting, or holes were observed, describe the location and extent for each line.

Piping was corroded, but sound.

VII. BRIEF SITE DESCRIPTION AND HISTORY

Bldg 54 of the Charleston Naval Base is a former fresh water pumphouse for the base water system. UST BLDG 54 was a registered but unregulated tank which provided diesel fuel for the diesel powered pumps. The tank was made of steel and installed in 1967.

VIII. SITE CONDITIONS

		Yes	No	Unk
A.	Were any petroleum-stained or contaminated soils found in the UST excavation, soil borings, trenches, or monitoring wells? If yes, indicate depth and location on the site map.	X		
B.	Were any petroleum odors detected in the excavation, soil borings, trenches, or monitoring wells? If yes, indicate location on site map and describe the odor (strong, mild, etc.)	X		
C.	Was water present in the UST excavation, soil borings, or trenches? If yes, how far below land surface (indicate location and depth)? 5 1/2', center of excavation	X		
D.	Did contaminated soils remain stockpiled on site after closure? If yes, indicate the stockpile location on the site map. Name of DHEC representative authorizing soil removal:		X	
E.	Was a petroleum sheen or free product detected on any excavation or boring waters? If yes, indicate location and thickness.	X		

IX. SAMPLE INFORMATION

S.C.D.H.E.C. Lab Certification Number 10120

Sample #	Location	Sample Type (Soil/Water)	Depth*	Date/Time of Collection	Collected By	OVA#
SPORT 0075-1	East end of tank.	Soil	4'	6/12/96 1300	R. Atkins	Not Taken
SPORT 0075-2	West end of tank.	Soil	4'	6/12/96 1300	R. Atkins	Not Taken
SPORT 0075-3	Center of excavation.	Water	5.5'	6/12/96 1300	R. Atkins	Not Taken
SPORT 0075-4	Center of excavation (40ml vials)	Water	5.5'	6/12/96 1300	R. Atkins	Not Taken

* = Depth Below the Surrounding Land Surface

X. SAMPLING METHODOLOGY

Provide a detailed description of the methods used to collect and store (preserve) the samples.

After the removal of UST BLDG 54 soil and ground water samples were taken. Sampling was performed in accordance with SC DHEC R.61-92 Part 280 and SC DHEC UST Assessment Guidelines.

The samples are identified as follows:

	Detachment Charleston		General Engineering Labs
Soil Sample	UST54-1	=	SPORT -0075-1
Soil Sample	UST54-2	=	SPORT -0075-2
Ground Water Sample	UST54-3	=	SPORT -0075-3
Ground Water Sample	UST54-4	=	SPORT -0075-4

Sample jars were prepared by the testing laboratory. The grab method was utilized to fill the sample containers leaving as little head space as possible and immediately capped. Soil samples were extracted where the ends of the tanks had rested. Ground water samples were taken from the bottom center of the excavation.

The samples were marked, logged, and immediately placed in sample coolers packed with ice to maintain an approximate temperature of 4° C. Tools were thoroughly cleaned and decontaminated with organic-free soap and water after each sample.

The samples remained in the custody of SPORTENVDETCHASN until they were transferred to General Engineering Laboratories for analysis as documented in the attached Chain-of-Custody Record.

XI. RECEPTORS

		Yes	No
A.	Are there any lakes, ponds, streams, or wetlands located within 1000 feet of the UST system? If yes, indicate type of receptor, distance, and direction on site map.		X
B.	Are there any public, private, or irrigation water supply wells within 1000 feet of the UST system? If yes, indicate type of well, distance, and direction on site map.		X
C.	Are there any underground structures (e.g., basements) located within 100 feet of the UST system? If yes, indicate the type of structure, distance, and direction on site map.		X
D.	Are there any underground utilities (e.g., telephone, electricity, gas, water, sewer, storm drain) located within 100 feet of the UST system that could potentially come in contact with the contamination? [*electricity, gas, & water] If yes, indicate the type of utility, distance, and direction on the site map.	X*	
E.	Has contaminated soil been identified at a depth of less than 3 feet below land surface in an area that is not capped by asphalt or concrete? If yes, indicate the area of contaminated soil on the site map.		X

Attachment I

SITE MAP

You must supply a scaled site map. It should include all buildings, road names, utilities, tank and pump island locations, sample locations, extent of excavation, and any other pertinent information.

Site Maps 1, 2, and 3
Photographs 1- 5

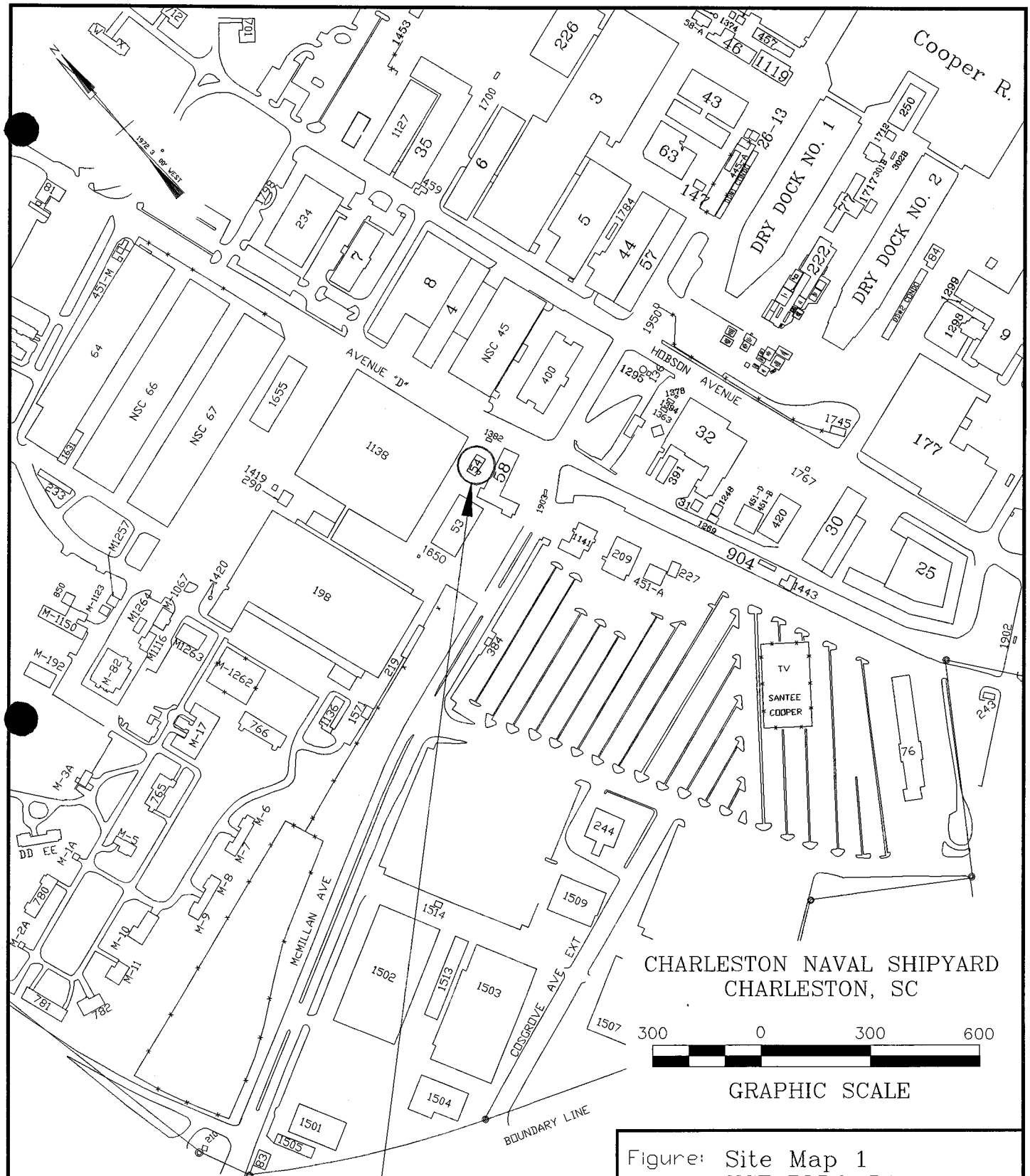
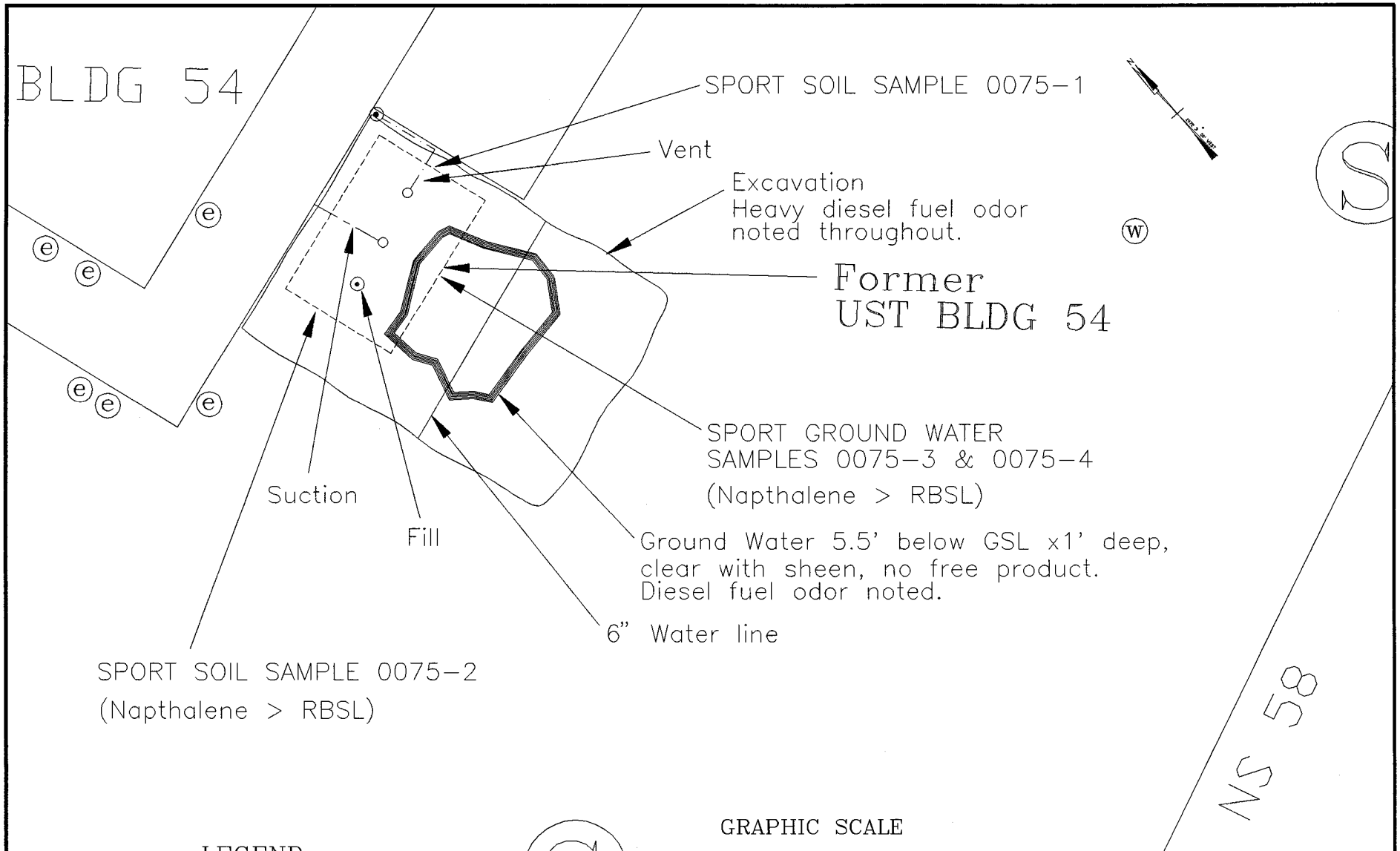


Figure: Site Map 1
UST BLDG 54
Charleston Naval Base
Charleston, SC

SPORTENVDETCHASN
1899 North Hobson Avenue
North Charleston, SC 29405-2106

DWG DATE: 18 Sept 1996

DWG NAME: BLDG54_1



LEGEND

- (e) Electrical conduit
- (S) Sewer manhole
- (W) Water line access cover

GRAPHIC SCALE

1' 1'
2' 0 2'

Figure: Site Map 2
UST BLDG 54
Charleston Naval Base
Charleston, SC

SPORTENVDETCHASN
1899 North Hobson Avenue
North Charleston, SC 29405-2106

DWG DATE: 23 Sept 1996

DWG NAME: BLDG54_2

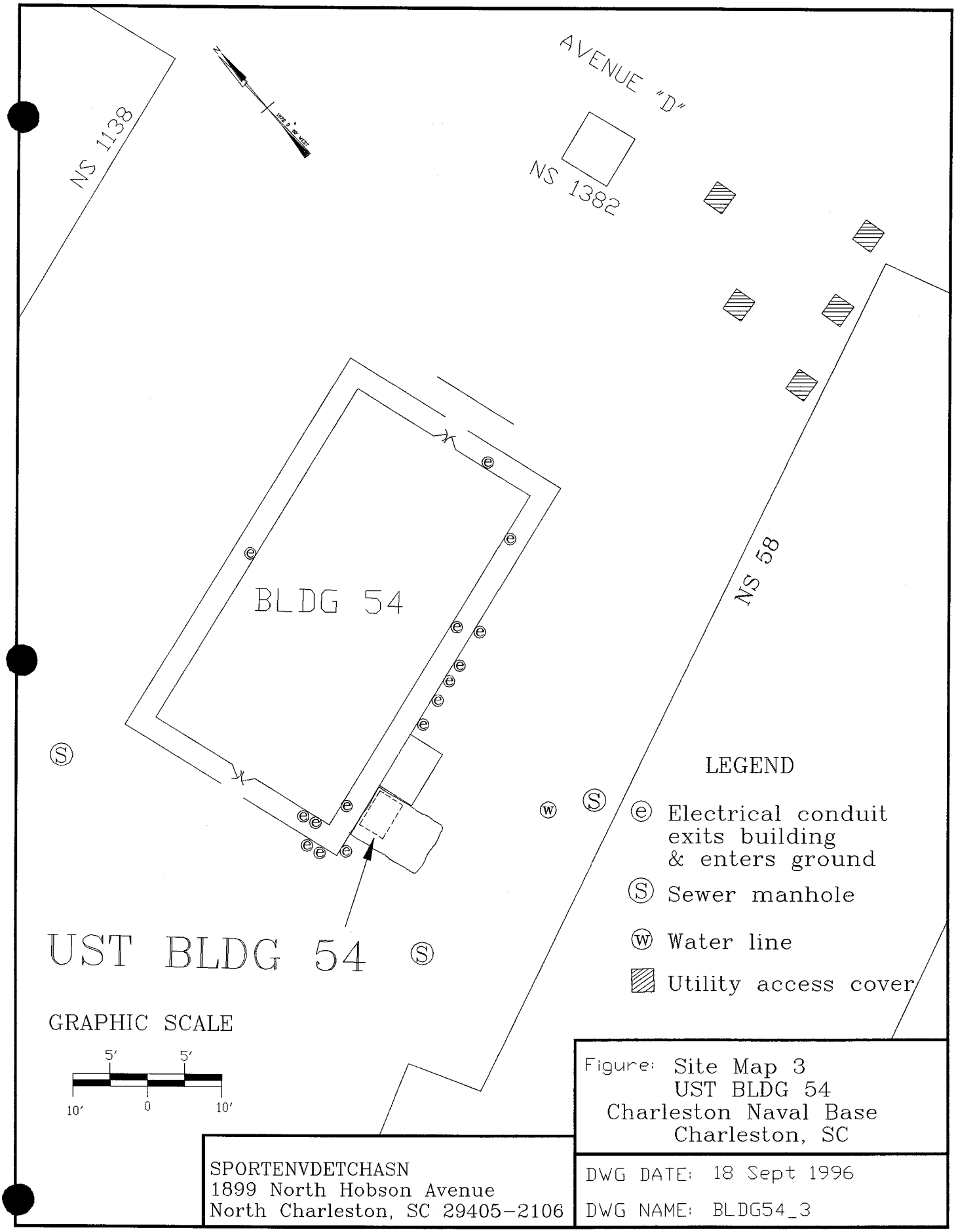


Figure: Site Map 3
UST BLDG 54
Charleston Naval Base
Charleston, SC

SPORTENVDETCHASN
1899 North Hobson Avenue
North Charleston, SC 29405-2106

DWG DATE: 18 Sept 1996

DWG NAME: BLDG54_3

UST BLDG 54

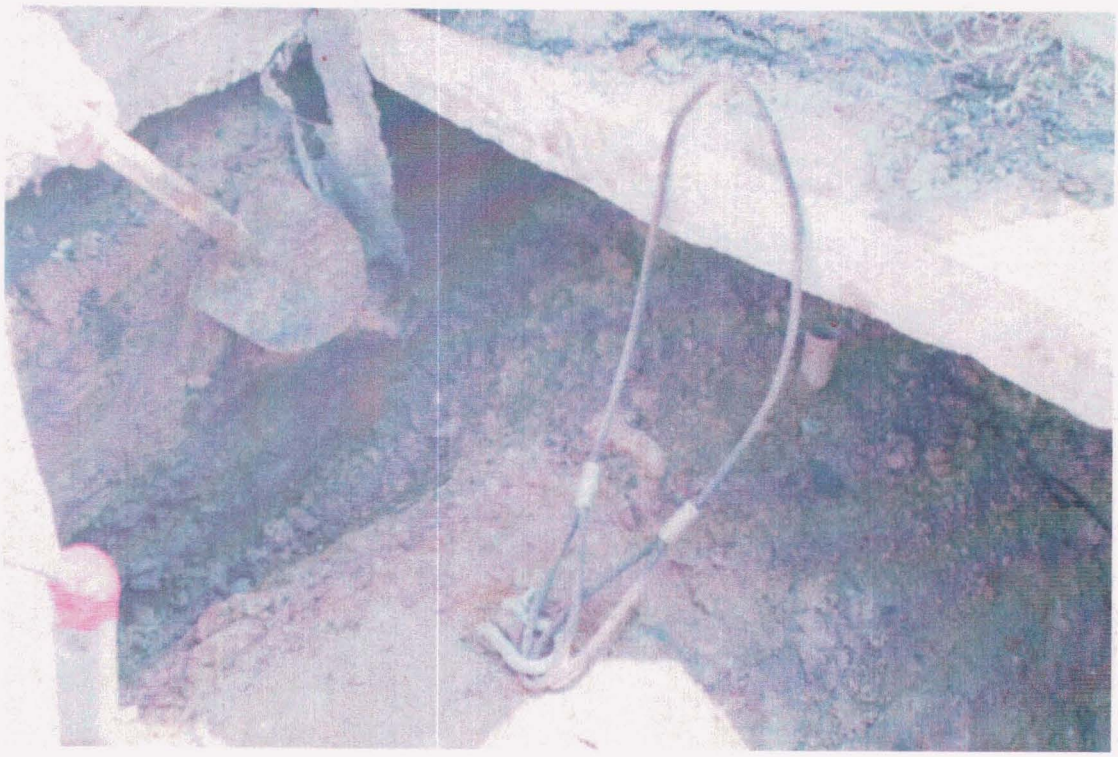


Photo 1: Prior to removal. Suction line is being indicated by shovel.

Photo 2: Removal in progress.

UST BLDG 54

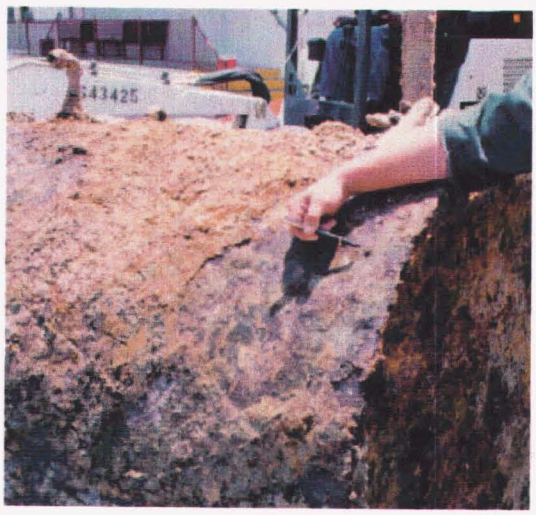


Photo 3: Quarter-inch hole is being indicated.

Photo 4: A second 1/4 inch hole is being indicated.

Photo 5: UST BLDG 54 ends cut open for steam cleaning.

Attachment II

ANALYTICAL RESULTS

You must submit the laboratory report and chain-of-custody form for the samples. These samples must be analyzed by a South Carolina certified laboratory.

Certified Analytical Results
Chain-of-Custody

GENERAL ENGINEERING LABORATORIES

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CERTIFICATE OF ANALYSIS

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 21, 1996

Sample ID	: SPORT 0075-1
Lab ID	: 9606277-01
Matrix	: Soil
Date Collected	: 06/12/96
Date Received	: 06/14/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	1.00	2.00	ug/kg	1.0	THL	06/18/96	1300	86067	1
Ethylbenzene	U	0.00	1.00	2.00	ug/kg	1.0					
Toluene	U	0.00	1.00	2.00	ug/kg	1.0					
Xylenes (TOTAL)	U	0.00	1.00	4.00	ug/kg	1.0					
Naphthalene		4.12	1.00	2.00	ug/kg	1.0					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	165	330	ug/kg	1.0	BDG	06/18/96	1800	86033	2
Acenaphthylene	U	0.00	165	330	ug/kg	1.0					
Anthracene	U	0.00	165	330	ug/kg	1.0					
Benzo(a)anthracene	U	0.00	165	330	ug/kg	1.0					
Benzo(a)pyrene	U	0.00	165	330	ug/kg	1.0					
Benzo(b)fluoranthene	U	0.00	165	330	ug/kg	1.0					
Benzo(ghi)perylene	U	0.00	165	330	ug/kg	1.0					
Benzo(k)fluoranthene	U	0.00	165	330	ug/kg	1.0					
Chrysene	U	0.00	165	330	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	165	330	ug/kg	1.0					
Fluoranthene	U	0.00	165	330	ug/kg	1.0					
Fluorene	U	0.00	165	330	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	165	330	ug/kg	1.0					
Naphthalene	U	0.00	165	330	ug/kg	1.0					
Phenanthrene	U	0.00	165	330	ug/kg	1.0					
Pyrene	U	0.00	165	330	ug/kg	1.0					

The following prep procedures were performed:
GC/MS Base/Neutral Compounds GWL 06/17/96 1700 86033 3

P O Box 30712 • Charleston, SC 29417 • (803) 556-8171 • Fax (803) 766-1178 *9606277-01*

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Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 21, 1996

Sample ID : SPORT 0075-1

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	99.3	(30.0 - 115.)
Nitrobenzene-d5	M610	95.3	(23.0 - 120.)
p-Terphenyl-d14	M610	85.0	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	90.2	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	116.	(74.0 - 128.)
Toluene-d8	BTEX-8260	92.6	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	90.2	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	116.	(74.0 - 128.)
Toluene-d8	NAP-8260	92.6	(53.4 - 163.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

Notes:
The qualifiers in this report are defined as follows:
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicate that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications		EPI Laboratory Certifications	
AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175

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GENERAL ENGINEERING LABORATORIES

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Client:	Supervisor of Ship Building & Conversion SUPSHIP-Portsmouth Detachment-Env. 1899 North Hobson Ave. North Charleston, South Carolina 29405-2106
Contact:	Mr. Bill Hiers
Project Description:	SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 21, 1996

Sample ID : SPORT 0075-1

GEL Laboratory Certifications		EPI Laboratory Certifications	
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790			

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Analytical Report Specialist

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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 21, 1996

Sample ID	: SPORT 0075-2
Lab ID	: 9606277-02
Matrix	: Soil
Date Collected	: 06/12/96
Date Received	: 06/14/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	10.0	20.0	ug/kg	10.	THL	06/17/96	1731	86067	1
Ethylbenzene		216	10.0	20.0	ug/kg	10.					
Toluene	U	0.00	10.0	20.0	ug/kg	10.					
Xylenes (TOTAL)		58.3	10.0	20.0	ug/kg	10.					
Naphthalene		1270	10.0	20.0	ug/kg	10.					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	165	330	ug/kg	1.0	BDG	06/18/96	1833	86033	2
Acenaphthylene	U	0.00	165	330	ug/kg	1.0					
Anthracene	U	0.00	165	330	ug/kg	1.0					
Benzo(a)anthracene	U	0.00	165	330	ug/kg	1.0					
Benzo(a)pyrene	U	0.00	165	330	ug/kg	1.0					
Benzo(b)fluoranthene	U	0.00	165	330	ug/kg	1.0					
Benzo(ghi)perylene	U	0.00	165	330	ug/kg	1.0					
Benzo(k)fluoranthene	U	0.00	165	330	ug/kg	1.0					
Chrysene	U	0.00	165	330	ug/kg	1.0					
Dibenzo(a,h)anthracene	U	0.00	165	330	ug/kg	1.0					
Fluoranthene	U	0.00	165	330	ug/kg	1.0					
Fluorene	U	0.00	165	330	ug/kg	1.0					
Indeno(1,2,3-c,d)pyrene	U	0.00	165	330	ug/kg	1.0					
Naphthalene	U	0.00	165	330	ug/kg	1.0					
Phenanthrene		924	165	330	ug/kg	1.0					
Pyrene	U	0.00	165	330	ug/kg	1.0					

The following prep procedures were performed:
GC/MS Base/Neutral Compounds GWL 06/17/96 1700 86033 3

CERTIFICATE OF ANALYSIS

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SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 21, 1996

Sample ID : SPORT 0075-2

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M

Comments:
A dilution was required for Volatiles Organics due to large amounts of hydrocarbons. As a result, the detection limits were elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	95.3	(30.0 - 115.)
Nitrobenzene-d5	M610	103.	(23.0 - 120.)
p-Terphenyl-d14	M610	69.4	(37.3 - 128.)
Bromofluorobenzene	BTEX-8260	104.	(59.7 - 159.)
Dibromofluoromethane	BTEX-8260	107.	(74.0 - 128.)
Toluene-d8	BTEX-8260	96.0	(53.4 - 163.)
Bromofluorobenzene	NAP-8260	104.	(59.7 - 159.)
Dibromofluoromethane	NAP-8260	107.	(74.0 - 128.)
Toluene-d8	NAP-8260	96.0	(53.4 - 163.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3550

Notes:
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SEL Laboratory Certifications **EPI Laboratory Certifications**

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Contact:	Mr. Bill Hiers
Project Description:	SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 21, 1996

Sample ID : SPORT 0075-2

GEL Laboratory Certifications		EPI Laboratory Certifications	
AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
[illegible] - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790			

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Analytical Report Specialist

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1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 20, 1996

Sample ID	: SPORT 0075-3
Lab ID	: 9606277-03
Matrix	: GroundH2O
Date Collected	: 06/12/96
Date Received	: 06/14/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	1000	2000	ug/l	1000	RMB	06/17/96	1833	86063	1
Ethylbenzene	U	0.00	1000	2000	ug/l	1000					
Toluene	U	0.00	1000	2000	ug/l	1000					
Xylenes (TOTAL)	U	0.00	1000	2000	ug/l	1000					
Methyl Tert Butyl Ether	U	0.00	1000	2000	ug/l	1000					
Naphthalene		4200	1000	2000	ug/l	1000					
Extractable Organics											
Polynuclear Aromatic Hydrocarbons - 16 items											
Acenaphthene	U	0.00	200	400	ug/l	40.	BDG	06/18/96	1336	86043	2
Acenaphthylene	U	0.00	200	400	ug/l	40.					
Anthracene	U	0.00	200	400	ug/l	40.					
Benzo(a)anthracene	U	0.00	200	400	ug/l	40.					
Benzo(a)pyrene	U	0.00	200	400	ug/l	40.					
Benzo(b)fluoranthene	U	0.00	200	400	ug/l	40.					
Benzo(ghi)perylene	U	0.00	200	400	ug/l	40.					
Benzo(k)fluoranthene	U	0.00	200	400	ug/l	40.					
Chrysene	U	0.00	200	400	ug/l	40.					
Dibenzo(a,h)anthracene	U	0.00	200	400	ug/l	40.					
Fluoranthene	U	0.00	200	400	ug/l	40.					
Fluorene	U	0.00	200	400	ug/l	40.					
Indeno(1,2,3-c,d)pyrene	U	0.00	200	400	ug/l	40.					
Naphthalene	U	0.00	200	400	ug/l	40.					
Phenanthrene	U	0.00	200	400	ug/l	40.					
Pyrene	U	0.00	200	400	ug/l	40.					

GENERAL ENGINEERING LABORATORIES

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CERTIFICATE OF ANALYSIS

Client: Supervisor of Ship Building & Conversion
SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 20, 1996

Sample ID : SPORT 0075-3

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
The following prep procedures were performed:											
GC/MS Base/Neutral Compounds							TSD	06/17/96	1030	86043	3

Comments:
A dilution was required for Volatiles Organics due to large amounts of hydrocarbons. As a result, the detection limits were elevated.

A dilution was also required for Extractables Organics due to matrix interference. As a result, the detection limits are elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
2-Fluorobiphenyl	M610	0.00*	(43.0 - 108.)
Nitrobenzene-d5	M610	0.00*	(35.0 - 111.)
p-Terphenyl-d14	M610	0.00*	(33.0 - 125.)
Bromofluorobenzene	BTEX-8260	92.0	(80.0 - 128.)
Dibromofluoromethane	BTEX-8260	106.	(67.7 - 135.)
Toluene-d8	BTEX-8260	94.0	(76.8 - 122.)
Bromofluorobenzene	MTBE-8260	92.0	(80.0 - 128.)
Dibromofluoromethane	MTBE-8260	106.	(67.7 - 135.)
Toluene-d8	MTBE-8260	94.0	(76.8 - 122.)
Bromofluorobenzene	NAP-8260	92.0	(80.0 - 128.)
Dibromofluoromethane	NAP-8260	106.	(67.7 - 135.)
Toluene-d8	NAP-8260	94.0	(76.8 - 122.)

M = Method	Method-Description
M 1	EPA 8260
M 2	EPA 8270
M 3	EPA 3510

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cc: NPWC00196 Report Date: June 20, 1996

Sample ID : SPORT 0075-3

M = Method	Method-Description

Notes:
The qualifiers in this report are defined as follows:
J indicates presence of analyte at a concentration less than the reporting limit (RL) and greater than the detection limit (DL).
U indicates that the analyte was not detected at a concentration greater than the detection limit.
* indicate that a quality control analyte recovery is outside of specified acceptance criteria.

GEL Laboratory Certifications		EPI Laboratory Certifications	
AL - 41040	AZ - AZ0514	AL - 41050	AZ - AZ0514
CA - 2089	CT - PH-0169	CA - I-1023/2056	CT - PH-0175
DE - SC012	FL - E87156/87294	FL - E87472/87458	MS - 29417
ME - SC012	MS - 10120	NY - 11502	RI - 138
NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790			

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Contact:	Mr. Bill Hiers
Project Description:	SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 20, 1996

Sample ID : SPORT 0075-3

GEL Laboratory Certifications **EPI Laboratory Certifications**

This data report has been prepared and reviewed in accordance with General Engineering Laboratories standard operating procedures. Please direct any questions to your Project Manager, Karen Blakeney at (803) 769-7386.

Analytical Report Specialist

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SUPSHIP-Portsmouth Detachment-Env.
1899 North Hobson Ave.
North Charleston, South Carolina 29405-2106
Contact: Mr. Bill Hiers
Project Description: SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 20, 1996

Sample ID	: SPORT 0075-4
Lab ID	: 9606277-04
Matrix	: GroundH2O
Date Collected	: 06/12/96
Date Received	: 06/14/96
Priority	: Routine
Collector	: Client

Parameter	Qualifier	Result	DL	RL	Units	DF	Analyst	Date	Time	Batch	M
Volatile Organics											
BTEX - 4 items											
Benzene	U	0.00	200	400	ug/l	200	RMB	06/18/96	1555	86063	1
Ethylbenzene	U	68.0	200	400	ug/l	200					
Toluene	U	0.00	200	400	ug/l	200					
Xylenes (TOTAL)	U	0.00	200	400	ug/l	200					
Methyl Tert Butyl Ether	U	0.00	200	400	ug/l	200					
Naphthalene		1360	200	400	ug/l	200					

Comments:
A dilution was required for this sample due to hydrocarbons.
As a result, the detection limits is elevated.

Surrogate Recovery	Test	Percent%	Acceptable Limits
Bromofluorobenzene	BTEX-8260	92.0	(80.0 - 128.)
Dibromofluoromethane	BTEX-8260	105.	(67.7 - 135.)
Toluene-d8	BTEX-8260	95.2	(76.8 - 122.)
Bromofluorobenzene	MTBE-8260	92.0	(80.0 - 128.)
Dibromofluoromethane	MTBE-8260	105.	(67.7 - 135.)
Toluene-d8	MTBE-8260	95.2	(76.8 - 122.)
Bromofluorobenzene	NAP-8260	92.0	(80.0 - 128.)
Dibromofluoromethane	NAP-8260	105.	(67.7 - 135.)
Toluene-d8	NAP-8260	95.2	(76.8 - 122.)

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Contact:	Mr. Bill Hiers
Project Description:	SUPSHIP-Portsmouth Detachment

cc: NPWC00196 Report Date: June 20, 1996

Sample ID : SPORT 0075-4

M = Method	Method-Description
M 1	EPA 8260

Notes:
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indicate that a quality control analyte recovery is outside of specified acceptance criteria.

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NC - 233	NY - 11501	SC - 10582	TN - 02934
RI - 135	SC - 10120	UT - E-227	VA - 00111
TN - 02934	UT - E-251	WA - C225	NJ - 79002
VA - 00151	WA - C223	PA - 68-485	WV - 235
WI - 999887790			

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Contact:	Mr. Bill Hiers
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cc: NPWC00196 Report Date: June 20, 1996

Sample ID : SPORT 0075-4

GEL Laboratory Certifications **EPI Laboratory Certifications**

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Analytical Report Specialist

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NI 00196

1c 3

CHAIN OF CUSTODY RECORD

9606277

Page 1 of 1

General Engineering Laboratories, Inc.
2040 Savage Road
Charleston, South Ca. 29414
P.O. Box 30712
Charleston, South Carolina 29417
(803) 556-8171

Client Name/Facility Name: SPORTENVDETCHASN

Collected by/Company: RADKINS SPORTENVDETCHASN

CCL 21835

	SAMPLE ID	DATE	TIME	WELL	SOIL	COMP	GRAB	# OF CONTAINERS	pH, conductivity	TOC/DOC	TOX	Chloride, Fluoride, Sulfide	Nitrite/Nitrate	VOC - Specify Method required	METALS - specify	Pesticide	Herbicide	Total Phenol	Acid Extractables	B/N Extractables	PCB's	Cyanide	Coliform - specify type	BTEX & NAPTH	PAH	Remarks	
-01	SPORTOOTS-1	6/12/96	1300		X			2																X	X	UST 54-1 - SOIL	.1
-02	SPORTOOTS-2	6/12/96	1300		X			2																X	X	UST 54-2 - SOIL	.1
-03	SPORTOOTS-3	6/12/96	1300				X	5																1.	X	UST 54-3 GW	.2
-04	SPORTOOTS-4	6/12/96	1300				X	3																1.	X (3rd)	UST54-4 GW	.3
-05	SPORTOOTS-5	6/12/96	1300				X	3																1 X (3rd)		VOA TRIP BLANK	.3
																										1. BTEX & NAPTH & MTBE	

Use F or P in the boxes to indicate whether sample was filtered and/or preserved

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
Randy Radkins	6/13/96	1345	Fred S. McCann	W. R. Hiers, Jr.	6/14/96	1025	Michael Patrick
Relinquished by:	Date:	Time:	Received by lab by:	Date:	Time:	Remarks:	
Michael Patrick	6/14/96	1141	D Desrouvre	6/14/96	1200		

White = sample collector Yellow = file Pink = with report

Attachment III

Certificate of Disposal (tank)

UST Certificate of Disposal

CONTRACTOR

Supervisor of Shipbuilding, Conversion and Repair, USN
Portsmouth, VA
Environmental Detachment Charleston
1899 North Hobson Avenue
North Charleston 29405-2106

Telephone (803) 743-6482

TANK ID & LOCATION

UST 54; BLDG 54, Charleston Naval Base, N. Charleston, SC

DISPOSAL LOCATION

Bldg. 1601 Tank Cleaning
& Disposal Area
Charleston Naval Complex

TYPE OF TANK	SIZE (GAL)
Diesel fuel	560 gal.

CLEANING/DISPOSAL METHOD

The tank was cut open on both ends, cleaned with a steam cleaner, and disposed of as recyclable scrap metal.

DISPOSAL CERTIFICATION

I certify that the above tank has been properly cleaned and disposed of as recyclable scrap metal.

O.S. Uthein (Name) 9-20-96 (Date)